

COMPREHENSIVE ACCESS MANAGEMENT





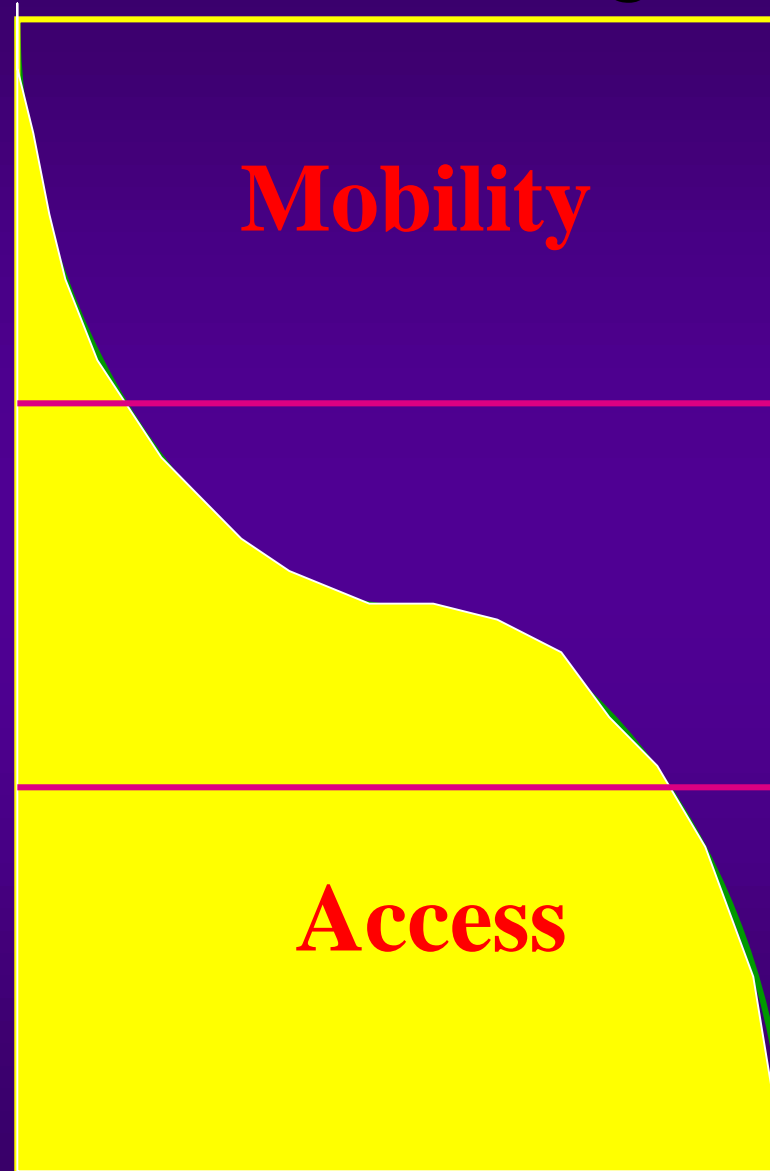
Definition

Planning, design and implementation of land use and transportation strategies that manage the flow of traffic between the road and surrounding land.

We have to balance the need to provide efficient, safe and timely travel throughout the state with the ability to allow access to the individual destination.



The Challenge



Freeway/Interstate
Expressway
Strategic Arterials

Principal Arterials
Secondary Arterials

Minor collector
Local collector



Why is Comprehensive Access Management Important?

- 1.
- 2.
- 3.
- 4.



Why is Comprehensive Access Management Important?

1. Significantly enhance safety
2. Preserve and recapture mobility
3. Foster economic development
4. Increase environmental stewardship

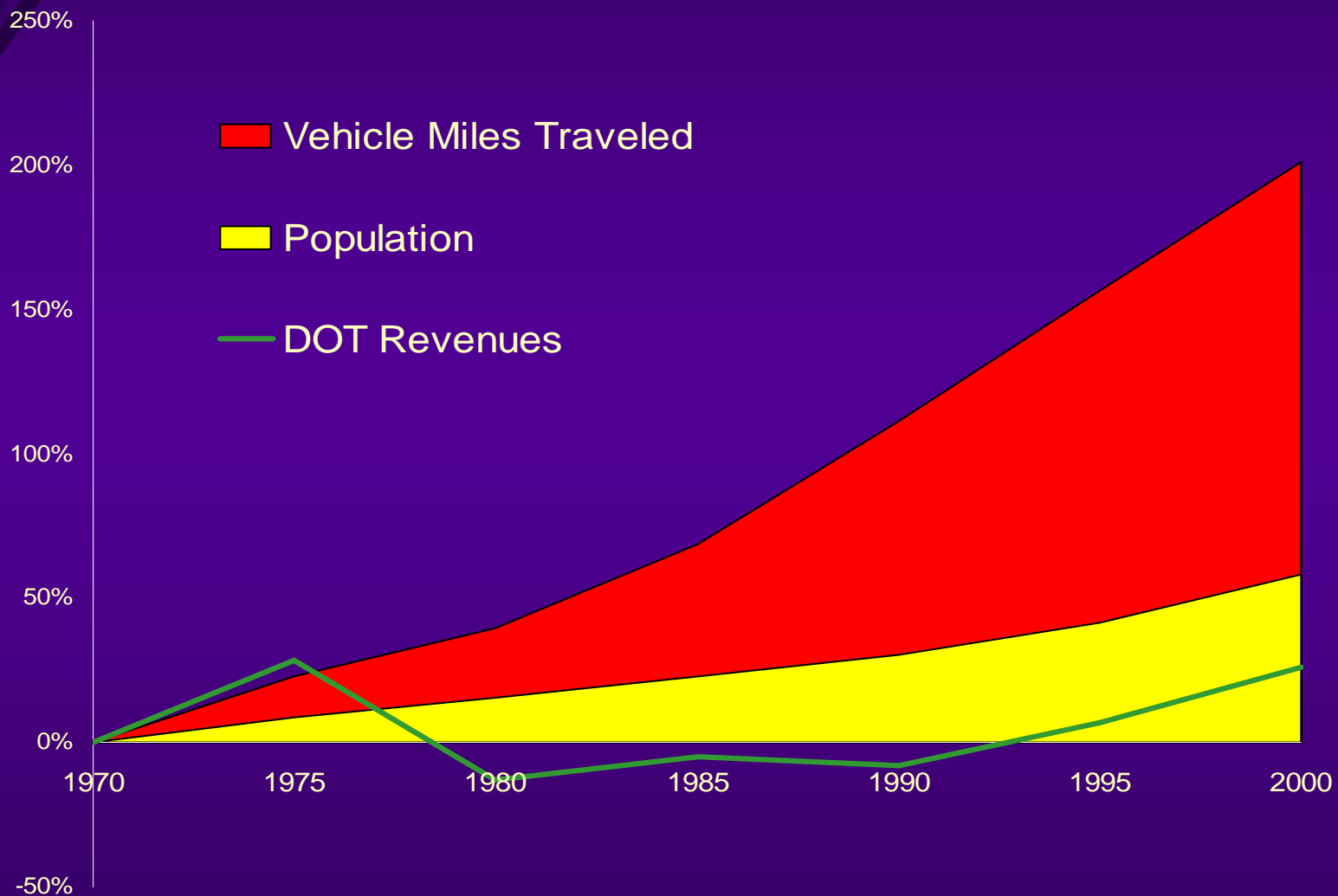


Crash Reduction



- Accidents reduced by 30 to 60 percent

Mobility is Critical



A photograph of a traffic light and a sign. The sign is rectangular and white with black text that reads "THIS LIGHT NEVER TURNS GREEN". It is positioned between two traffic lights. The traffic light on the left is a standard three-light signal, and the one on the right is a four-light signal with the top light illuminated red. The background is a clear blue sky with some power lines visible.

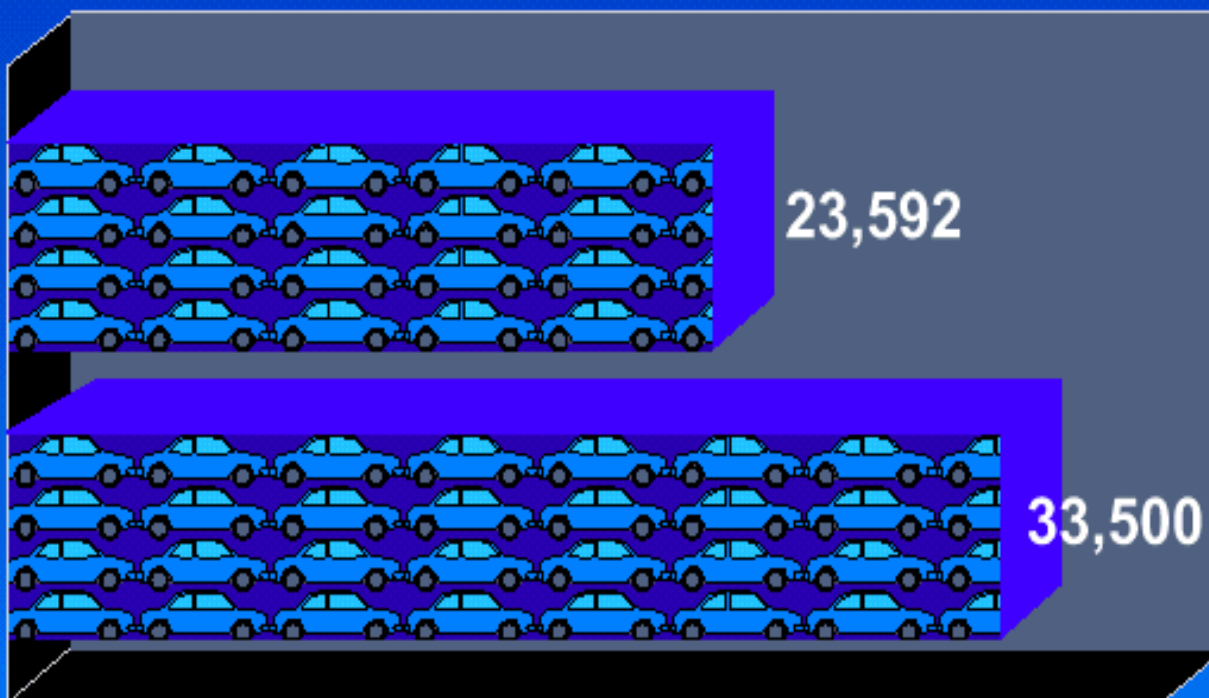
THIS LIGHT
NEVER TURNS
GREEN

INCREASED CAPACITY



Access Management gives us room for almost 10,000 more vehicles a day*

**LOW
ACCESS
MANAGEMENT**



**HIGH
ACCESS
MANAGEMENT**

Maximum Daily Traffic at Level of Service "D" on 4-Lane Road

* Source: FDOT and 1985 Highway Capacity Manual



Effects on the Public and Private Sector

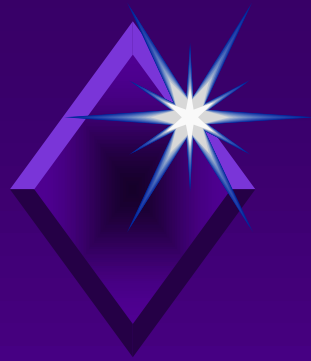
- Travel Time
- Employment Location Decisions
- Economic Impacts on individual businesses
- Loss of Mobility Investment
- Intrastate System
- Cost for Added Capacity
- Cost to Bypass





Effects on the Environment

- Congestion/Air Quality
- Support of local, regional and state land use policies
- Appearance of roadside and highway areas
- Preservation of natural resources



Implementation of



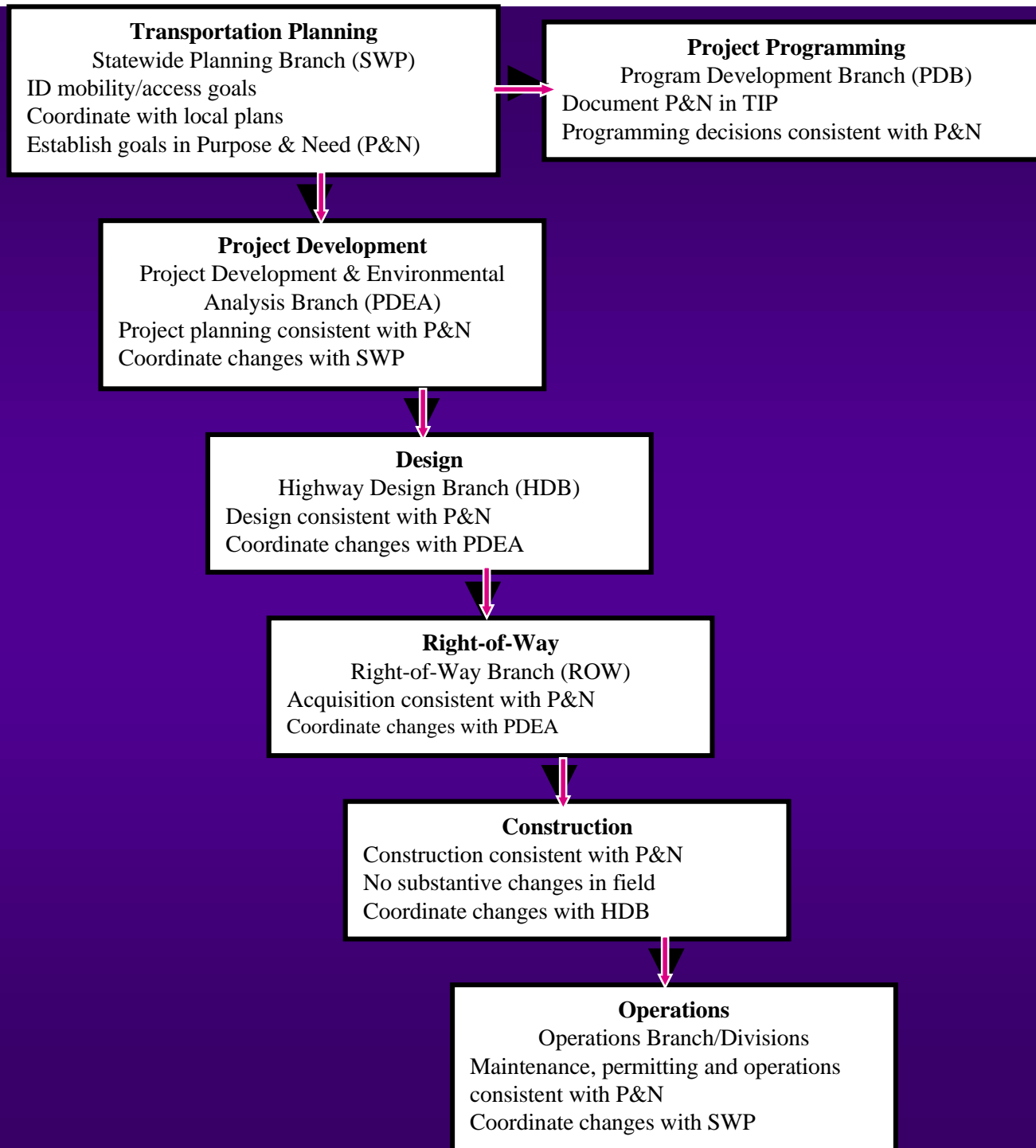
Comprehensive Access Management



Main Components

- Retrofit Program
- Planning New Highways
 - Replanning Current Projects
- Education and Outreach







Key Legislative Actions

- Make HTF \$ available for alternative access and retrofit programs.
- Create and fund an access management retrofit program.
- Mandate that local government /NCDOT concurrence review occurs before final local development and subdivision approvals whenever it affects a state highway.
- Implement proposed legislative changes from the Driveway Manual update.

Key Policies



- Adopt the Driveway Manual update as a policy document.
- Adopt a policy which includes:
 - intersections and access points on state highways
 - medians and the location of median crossovers on state highways
 - interchanges to ensure safe and efficient operation between connecting roadways
 - requests for variance from adopted driveway and other access management standards, policies and practices
 - Respect local and regional planning decisions to the greatest extent possible
 - consult with municipalities, counties and regional organizations

Key Practices

- Project Approach
 - Include AM in corridor and transportation plans.
- Toolbox Expansion
 - Investigate & utilize alternate intersection/interchange designs & X sections.
 - Implement revised Driveway Manual on a more consistent basis.
 - Select driveway designs based on facility type and purpose (curb radii, grade)
- Coordination
 - Ensure consistency with AM policy and Driveway Manual philosophy when negotiating driveways and ROW purchases.
 - Include traffic management requirements within land use regulations. (joint and cross access, minimum lot frontage)
 - Develop collector system plans.





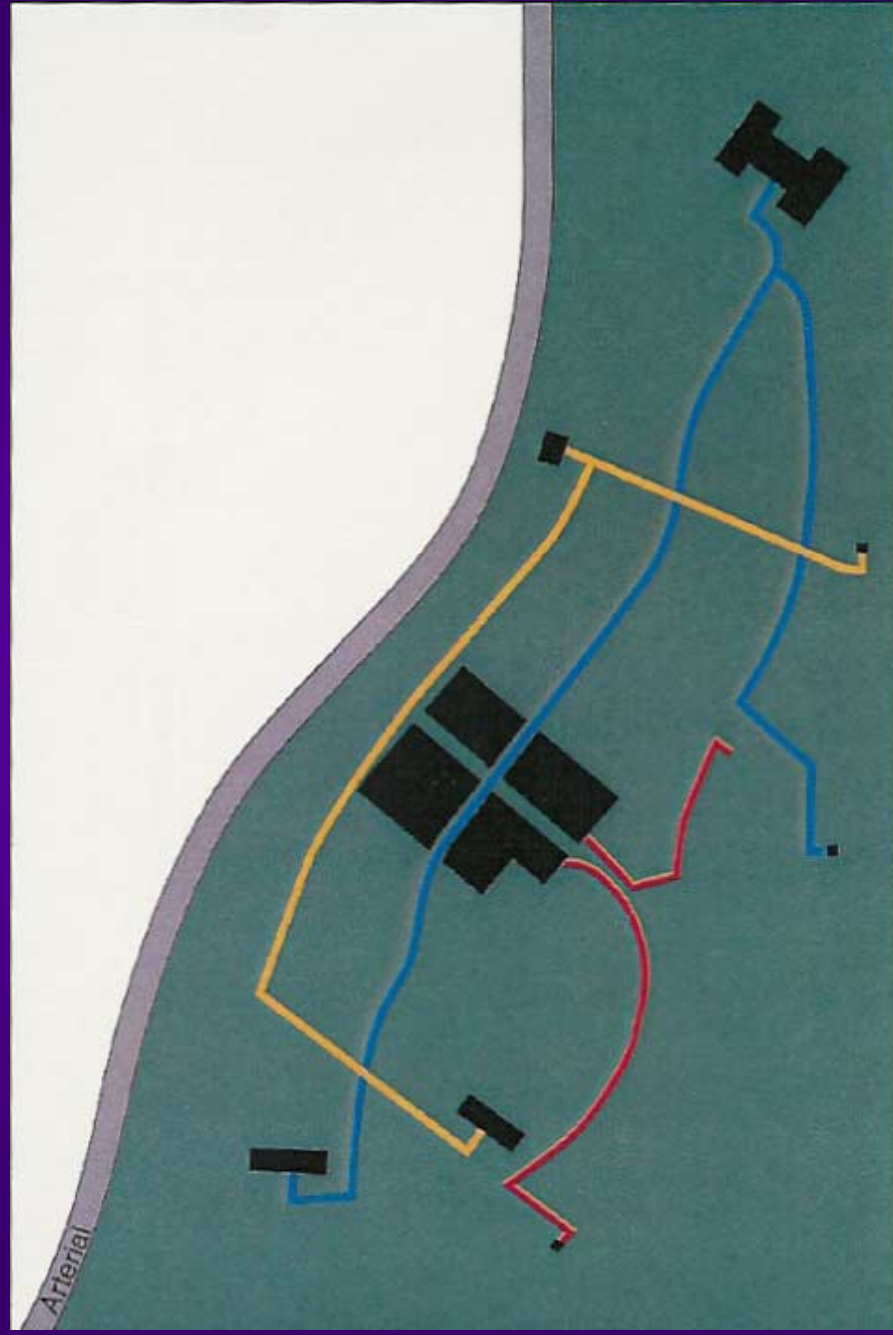
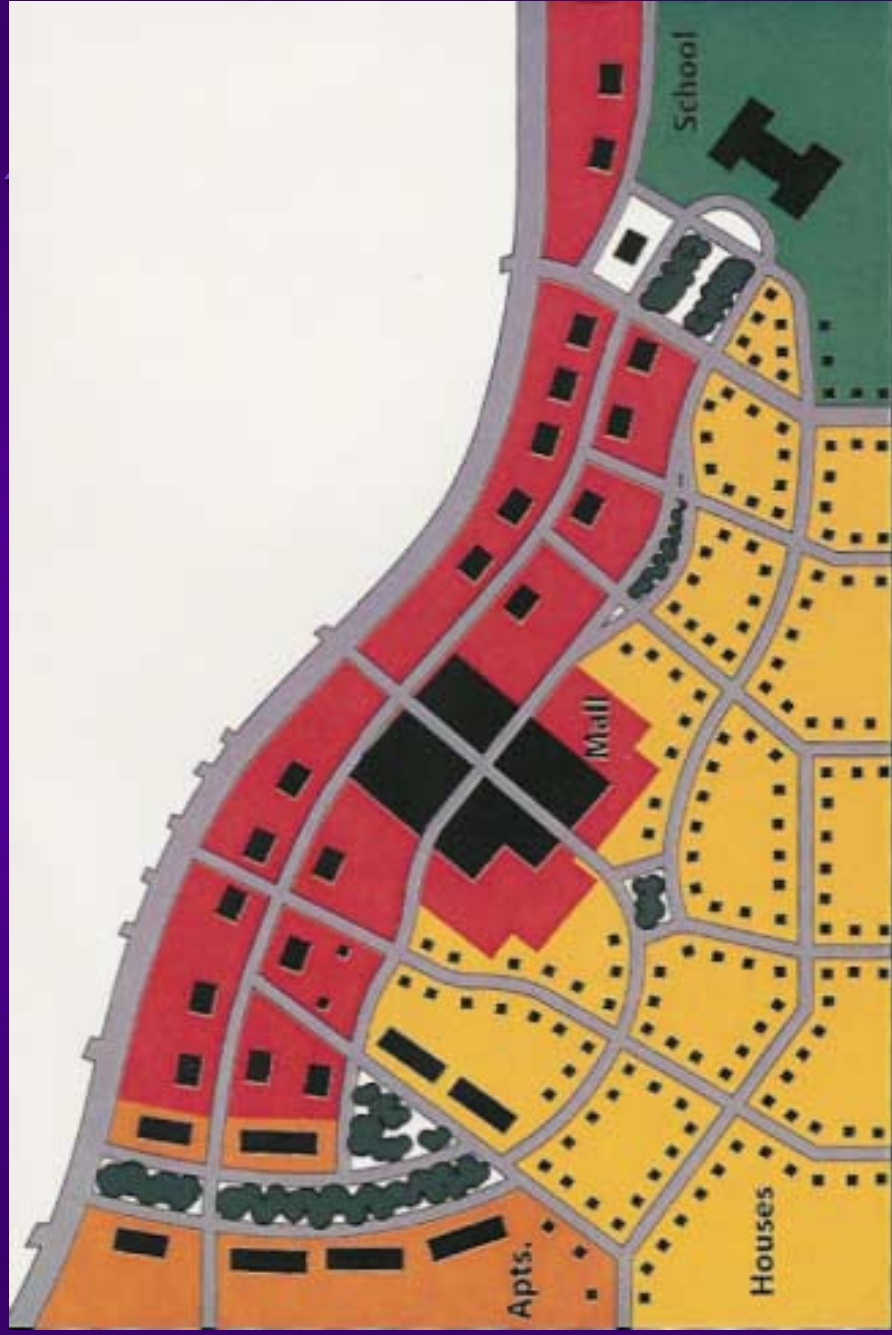
Why Integrated Planning?

Because transportation systems and land development patterns strongly influence each other and together affect the fundamental character of our communities



The Interconnectivity of Uses

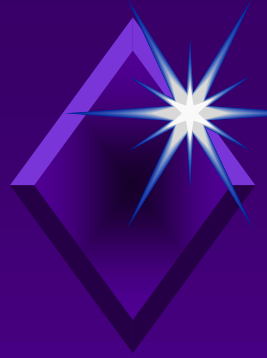






Integrating Land Use and Transportation Planning

Legislative amendments to
GS136-66.2 mandate
developing coordinated
land use and transportation plans

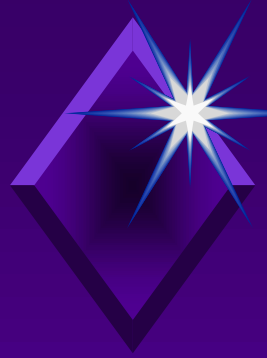


NCDOT Transportation Planning

Transportation Planning Map Series

Transportation Plans include five basic mapped elements:

1. Road System Map
2. Transit and Rail Map
3. Bicycle Map
4. Pedestrian Map
5. Cover Map



NCDOT Transportation Planning

1. Road System Map

- ◆ Land development along state and regional highways must reflect and respect high level mobility goals
- ◆ Local and sub-regional roads provide a balance of mobility and property access





Summary

- Challenges
 - Education
 - Overcome perceptions
 - Time
- Benefits
 - Significantly enhance safety
 - Preserve and recapture mobility
 - Foster economic development
 - Increase environmental stewardship

